

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/14674

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> H01L27/146, H04N5/32, H04N5/335

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H01L27/146, H04N5/32, H04N5/335, G01T1/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-291877 A (Hamamatsu Photonics Kabushiki Kaisha), 19 October, 2001 (19.10.01), Full text; Figs. 1 to 4 (Family: none)	1-7
Y	WO 02/12845 A1 (Hamamatsu Photonics Kabushiki Kaisha), 14 February, 2002 (14.02.02), Full text; Figs. 1 to 10 & EP 1314969 A1 & US 2003/0156211 A1 & AU 7672601 A	1-7
Y	JP 5-315578 A (Fujitsu Ltd.), 26 November, 1993 (26.11.93), Full text; Figs. 1 to 3 (Family: none)	5

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>
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Date of the actual completion of the international search  
09 February, 2004 (09.02.04)

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24 February, 2004 (24.02.04)

Name and mailing address of the ISA/  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1207559 A2 (CANNON KABUSHIKI KAISHA), 22 May, 2002 (22.05.02), Full text; Figs. 1 to 16 & JP 2002-246582 A Full text; Figs. 1 to 12 & US 2002/0074503 A1	1, 2
A	JP 2002-311146 A (Hamamatsu Photonics Kabushiki Kaisha), 23 October, 2002 (23.10.02), Full text; Figs. 1 to 5 (Family: none)	1
P, Y	JP 2003-264280 A (Hamamatsu Photonics Kabushiki Kaisha), 19 September, 2003 (19.09.03), Full text; Figs. 1 to 8 & WO 03/77318 A1	1-7